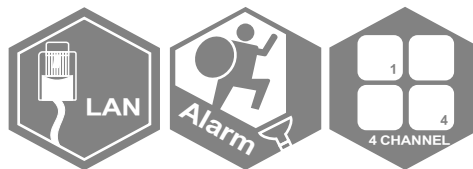


**4CH**

# **STANDALONE DVR**

..... **USER MANUAL** .....

2006 JUL. Ver 2.3



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## 1、FEATURE

- 1、Definitely Standalone.
- 2、Real Time Refresh Rate.
- 3、Display While Recording.
- 4、Frame Recording & Quad Recording.
- 5、Compatible of NTSC/PAL format.
- 6、Advanced MJPEG.
- 7、Manual / Motion / Programmed / Sensor Recording.
- 8、4 Sensor by Time / Date.
- 9、Search by Time / Date.
- 10、Watch dog feature.
- 11、HDD Volume Indicator.
- 12、Can use USB to link PC, Player can search Time to Play、  
saving and take photos functions.
- 13、Internal motion detect feature.
- 14、Auto switching function.
- 15、Looping Output.
16. Keypad Lock-up function.

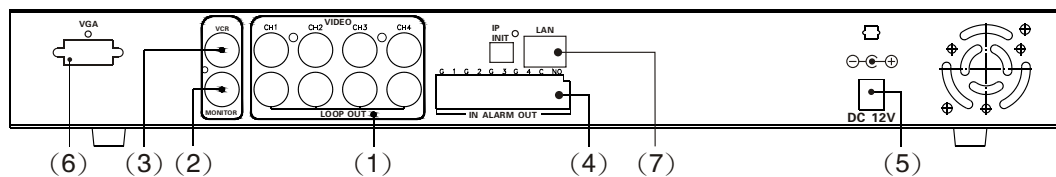
## 4CH STANDALONE DVR

### 2、SPECIFICATIONS

OPERATION SYSTEM	Embedded RTOS		
Video Input	NTSC/PAL		
Video Input Channel	4CH Composite		
Video Output Channel	2CH Composite (VCR OUT / MONITOR OUT)		
Display Frame	NTSC	120 fps (4x30 fps)	
	PAL	100 fps (4x25 fps)	
Recording Frame Rate(QUAD)	NTSC	Max. 30 fps	
	PAL	Max. 25 fps	
Recording Frame Rate(EACH)	NTSC	Max. 7.5fps(30 fps/4)	
	PAL	Max. 6.25fps(25 fps/4)	
Recording Mode	Continuous / Motion / Programmed/Sensor		
Resolution	Display	NTSC	720x480
		PAL	720 x 576
	Recording	NTSC	640x224
		PAL	640x272
Compression Format	Advanced MJPEG	Low	12K Bytes / Frame
		Normal	15K Bytes / Frame
		High	20K Bytes / Frame
HDD	400G X 2 (Max)		
Backup Device	VCR		
Search	Mode	Time / Date / Event	
	Full screen	YES	
Sensor	4 Input / 1 Output		
MOTION DETECT	YES		
LOSS DETECT	YES		
AUTO SWITCHING	YES		
BUZZER OUTPUT	YES		
Brightness adjust	YES		
Contrast adjust	YES		
USB Output	YES		
Looping Output	YES		
Keypad Lock-up	YES		
System a monitor	Power recover auto restore record mode		
Power supply	DC 12V / 4A(AC110V-240V 50/60HZ)		
Dimension	430mm x 300mm x 48mm (W x D x H)		
Weight	3.5KG		
LAN	10/100M		

### 3、INSTALLATION

#### REAR PANEL

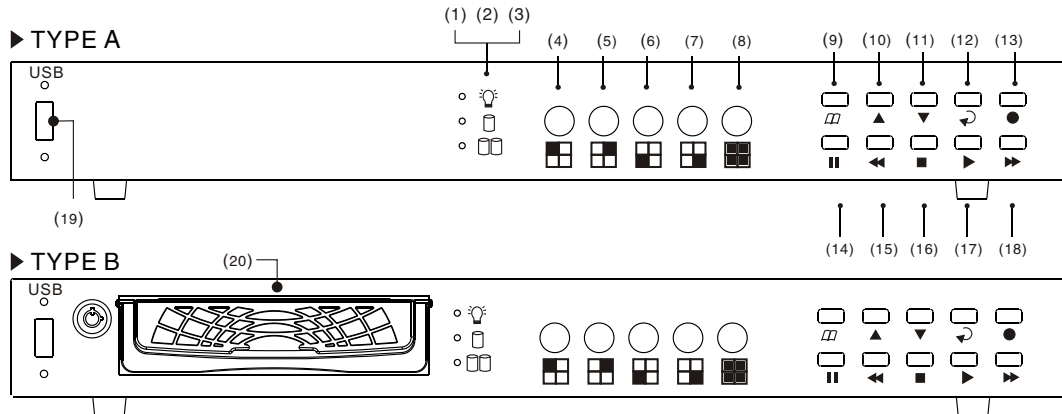


- (1) Cameras Video Input and Looping Output.
- (2) Video Output : Corresponding to Monitor Video Input.
- (3) Video Output : Corresponding to VCR Video Input.
- (4) Sensor I / O:
  - 1、Sensor Input of Camera #1
  - 2、Sensor GND of Camera #1
  - 3、Sensor Input of Camera #2
  - 4、Sensor GND of Camera #2
  - 5、Sensor Input of Camera #3
  - 6、Sensor GND of Camera #3
  - 7、Sensor Input of Camera #4
  - 8、Sensor GND of Camera #4
  - 9、Relay COM Output
  - 10、Relay N/O Output
- (5) Power Input : Please use the power supply attached  
Adaptor : DC-12V / 4A
- (6) VGA Output : Connect to VGA Monitor (option)
- (7) Ethernet RJ-45 (option)

★ HDD Compatibility:

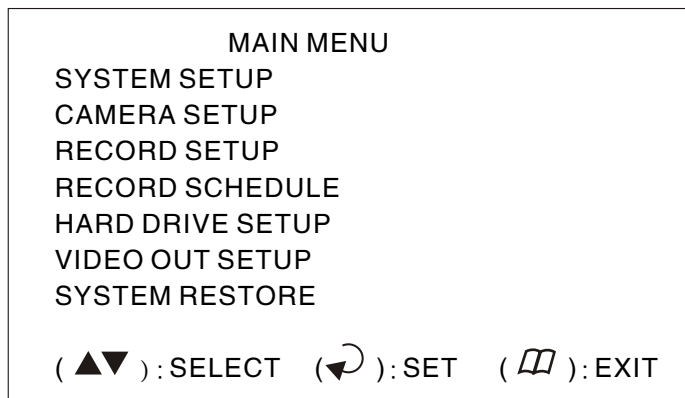
- Following listed HDD are not suggested to use due to the compatible issue.
- BRAND NAME : Western Digital
- Model NO : WD800JB、WD800BB、WD800VE、WD800UE、WD3200SB、WD3200JB。

## 4. FRONT PANEL



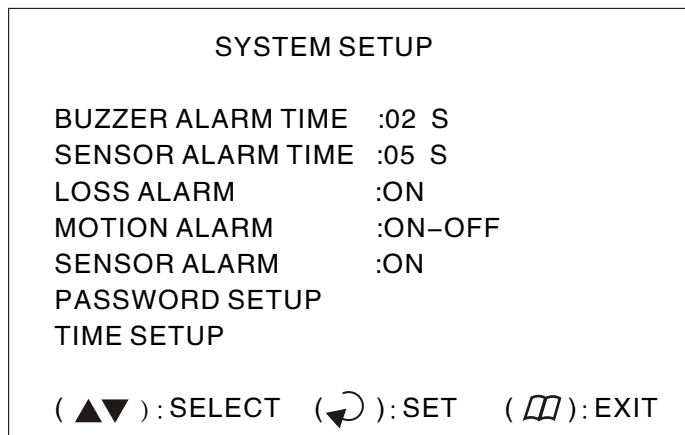
- (1) Record Indicator
- (2) HDD #1 Indicator
- (3) HDD #2 Indicator
- (4) Camera #1 Display (Ch1)
- (5) Camera #2 Display (Ch2)
- (6) Camera #3 Display (Ch3)
- (7) Camera #4 Display (Ch4)
- (8) Quad Display (QUAD) - AUTO SWITCHING
- (9) MENU, Percentage of the Hard Drive recorded
- (10) UP
- (11) DOWN
- (12) SELECT
- (13) RECORD
- (14) PAUSE, Keypad Lock-up
- (15) RF
- (16) STOP
- (17) PLAY
- (18) FF
- (19) USB Port
- (20) HDD RACK (TYPE B)

## 5、 OPERATING MANUAL(MAIN MENU)



Press ▲▼ to select items, use ↩ to enter.  
Press ⏏ to exit

### 5-1 、 SYSTEM SETUP



- (1) Buzzer Alarm Time Setup: 1–30 sec.
- (2) Sensor Alarm Time Setup: 0–30 sec, CONT (Continue).
- (3) Loss, Motion, Sensor Alarm: ON/OFF.
- (4) Motion Alarm : ON–OFF(4 Type) ,front is Alarm, behind is jump to alarm a picture.



## 5-1-1 、PASSWORD SETUP

Select this item to change password :

OLD PASSWORD	: _____
NEW PASSWORD	: _____
PASSWORD CONFIRM	: _____






(1) When the new password is accepted, the board will flash the following screen message.

“ PASSWORD CHANGING ”

(2) If the password was not accepted, you will receive a message that inform you.

“ INCORRECT ”




\*Use the view control button on the front panel to input the umber.

 is: " 1 "     is: " 2 "     is: " 3 "     is: " 4 "     is: " 5 "

## 5-1-2 、TIME SETUP

Select this item to set up current time.

TIME SET		
2004/12/17 18:00:30		
SHOW : UP 1		
( ▲▼ ) : SELECT	( ↻ ) : SET	( 📖 ) : EXIT

\*Press  to setup time. Use  to increase value.  
Press  to exit and to save data.

Show Time setup:

UP 1 : Displayed on up-right corner of screen, date & time listed in a rows.

UP 2 : Displayed on up-right corner of screen, date & time listed in two rows .

DOWN1 : Displayed on down-right corner of screen, date & time listed in a rows .

DOWN2 : Displayed on down-right corner of screen, date & time listed in two rows .

## 5-2 、CAMERA SETUP





CAMERA SETUP	
CAMERA	:CH1
RECORD SETUP	:ON
BRI SETUP	:05
CON SETUP	:05
SENSOR SETUP	:N-O
MOTION SETUP	:ON
SENSITIVITY SETUP	:05
AUTO SWITCHING	:05 S
( ▲▼ ): SELECT ( ↻ ): SET ( ⏏ ): EXIT	

Press ▲▼ to select items. Use ↻ to change data.  
Press ⏏ to exit and to save data.

- (1) Camera select (default value Ch1).
- (2) Record Set up : yes or no record.
- (3) Brightness / Contrast Set up : default value is 5.
- (4) Sensor Setup: Three items, N-O (normal-open),  
N-C(normal-close), ----(not installed).
- (5) Motion Set up : motion detector, ON/OFF.
- (6) Sensitivity Set up : sensitivity setup of motion detector.
- (7) AUTO SWITCHING : Switching time set up.

## 5-3 、RECORD SETUP

RECORD SET	
RECORD SETUP	:EACH MODE
VIDEO QUALITY	:NORMAL
RECORD FRAME RATE	:30 fps
SENSOR REC. FRAME RATE	:15 fps
SENSOR RECORD TIME	:05 SEC
( ▲▼ ): SELECT ( ↻ ): SET ( ⏏ ): EXIT	

- (1) Record Setup:EACH MODE (frame recording),  
QUAD MODE (quad recording).
- (2) Video Quality: video quality selection: High, Normal, Low
- (3) Record Frame Rate: QUAD MODE frame rate alternatives as follows:  
→30、20、15、10、7.5、6、5、4、3、2、1 fps.  
→In this mode  、 、 、 invalid.  
Each Mode frame rate alternatives as follows:  
→Maximum : 7.5 fps each camera Totally :30 fps = 7.5 x 4 CH
- (4) Video Quality: video quality selection: High, Normal, Low
- (5) Sensor Record Time : maximum 60 seconds sensor recording time.
- ※(4)(5) Record Schedule only valid in “ S ” selection.

#### 5-4 、 RECORD SCHEDULE

RECORD SCHEDULE

△ TTTT TTTT TTTT TTTT TTTT TTTT TTTT △

∴ ∴ ∴ ∴ ∴ ∴ ∴ ∴

0 3 6 9 12 15 18 21

( ▲▼ ) : SELECT ( ↻ ) : SET ( ⏏ ) : EXIT

Press ▲▼ to select items. Use ↻ to change record mode.  
Press ⏏ to exit and to save data

- (1)Use ↻ to change record mode.
- (2)Range: 0-24 hrs.
- (3)Set “T” for continuous recording.
- (4)Set “S” for sensor recording. Please refer to 5-3 sensor setup.
- (5)Set up “ - ” to disable the record time.

## 5-5、HARD DRIVE SETUP

HARD DRIVE SETUP	
OVERWRITE ENABLED	(YES )
MASTER HDD SIZE	80000MB
MASTER HDD USED	0MB0 %
MASTER HDD FORMAT	
SLAVE HDD SIZE	N/A
SLAVE HDD USED	N/A
SLAVE HDD FORMAT	
( ▲▼ ): SELECT ( ↻ ): SET ( ⏏ ): EXIT	

## (1) Overwrite Enabled

YES : Overwrite.

NO : Stop Recording.

## (2) Master HDD Status

Indicates use of the master HDD including volume &amp; percentage

## (3) Master Format

Select this item to format HDD, screen show:

PASSWORD INPUT (6) ----- 6 digits.

If password correct, the screen shows : “ password correct “

Otherwise, it shows: “ password incorrect “

\* Factory default password:111111

\* HDD must be formatted before installation, replacement &amp; re-installation.

## 5-6、VIDEO OUT SETUP

VIDEO OUT SETUP	
XGA RESOLUTION : 1024 X 768	
XGA FREQUENCY : 75 Hz	
( ▲▼ ): SELECT ( ↻ ): SET ( ⏏ ): EXIT	

Press ▲▼ to select items. Use ↻ to change data or to execute function. Press ⏏ to exit and to save data.






(1) Change RESOLVTION : 1024x768, 800x600, 640x480.

(2) Change FREQUENCY : 75Hz, 60Hz.

## 5-7、SYSTEM RESTORE

## 6、VIEW CONTROL


(1) Can use the following view control to monitor images from cameras.

-  Camera #1 (Ch1)       Camera #2 (CH2)
-  Camera #3 (Ch3)       Camera #4 (CH4)
-  QUAD Display, Auto switching function.

(2) Prior to view control, HDD must be formatted. Either “EACH MODE” or “QUAD MODE” should be selected. (Refer to 5-3)

(3) In mode of “QUAD MODE”, view control is only for quad display not available for CH1, CH2, CH3, Ch4

## 7、PLAYBACK CONTROL

(1) Press , and the system shows the recorded period.

(2) Each period is as four hour

SEARCH TIME




HARD DRIVER: MASTER



04/04/01 02:47:56 – 04/04/01 02:47:56

01 TIME 2004/12/10 02:47:50

02 TIME 2004/12/10 02:47:50

03 TIME 2004/12/10 02:47:50

(  ):SELECT (  )SET (  )PLAY

(  )EXIT (  )SELECT EVENT/TIME

→ Select HDD

→ Select Start Date/Time to End Date/Time

→ Event record start Date/Time

Press  to select EVENT or DATE / TIME , Press  to exit.

(1)EVENT :

Press ▲▼ choose one period, then press ► to play.

(2)DATE / TIME :

The signal " > " goes up to the "HARD DRIVER: MASTER" . Press ▲▼ to select items. Use ↶ select to change data, Then press ► to play.

(3)PLAYBACK :

\*Press ►► to speed forward. Continue to press ►► and show x2、x4、x8 multiple playing.

\*Press ◀◀ to show x2 multiple back motion.

\*Press || to pause.

\*Press ■ to stop.

## 8、RECORD CONTROL

(1)Press "●" key to start recording.

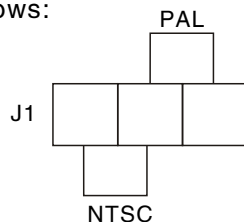
Icon "○" indicates recording.

(2) During recording, the mark " \* " appears in status of overwriting

## 9、NTSC / PAL SYSTEM SETUP

(1) Replace the jumper to change system.

(2) J1 as follows:



## 10.Keypad Lock-up Setup:

Strike the button "pause" five times continually, "L" pops up on the left, to enable . Keypad lock-up feature.

Strike the button "pause" five times again, "L" not found, to unlock keypad.

## 4CH STANDALONE DVR

### 11. 4CH Recording Hours on 80GB Hard Drive

\* Thereinafter a rough estimate a table for reference only, recording data quantity can follow an image a variation a rate somewhat different.

Recording Results in NTSC Format			30 fps	15 fps	7 fps	1 fps
Video Signal	Display Format	Video Quality				
NTSC	QUAD MODE	High	36Hours	72 Hours	144 Hours	1,080 Hours
		Normal	48 Hours	96 Hours	192 Hours	1,440 Hours
		Basic	58 Hours	116 Hours	232 Hours	1,740 Hours
	EACH MODE (Full Screen)	High	64 Hours	128 Hours	256 Hours	1,920 Hours
		Normal	90 Hours	180 Hours	360 Hours	2,700 Hours
		Basic	112 Hours	224 Hours	448 Hours	3,360 Hours
Recording Results in PAL Format			25 fps	12 fps	6 fps	1 fps
Video Signal	Display Format	Video Quality				
PAL	QUAD MODE	High	38 Hours	76 Hours	152 Hours	950 Hours
		Normal	48 Hours	96 Hours	192 Hours	1,200 Hours
		Basic	60 Hours	120 Hours	240 Hours	1,500 Hours
	EACH MODE (Full Screen)	High	62 Hours	124 Hours	248 Hours	1,550 Hours
		Normal	90 Hours	180 Hours	360 Hours	2,250 Hours
		Basic	118 Hours	236 Hours	472 Hours	2,950 Hours

## 12.DVR Viewer User Guide Revision V2.3.N.EN

### Introduction

This document is the Operation Manual for DVR Viewer. The application will show you stream image stored in the HDD which was previously formatted and recorded by the DVR.

If any DVR HDD is connected to your PC, the application will automatically detect the HDD and show the recorded stream. You can also save the current screen to a BMP file, and save the current stream to a MYS stream file or an AVI file.

\*We suggest to backup the video stream in MYS format for the fast speed.

### The application consists of two functional modules:

◆ DVR HDD PC Viewer	Shows stream stored in the HDD directly.
◆ MYS File Player	Plays captured stream MYS file.

### Requirement

◆ OS	Windows 2000 SP4 / XP SP3 or later
◆ DirectX	DirectX 7.0 or later

### Recommendation

◆ CPU	1.0 GHz or Higher
◆ RAM	256 MB or Greater

### Installation

#### Hardware Installation

As stated above, the application shows stream which is stored in DVR HDD.

Before installing and executing the application, make sure that you connected DVR HDD to the IDE cable of your PC directly, or via USB HDD adaptor



### Software Installation

Make sure that the OS of your PC is Windows 2000 SP4 or later [XP SP2 or 2003]. Otherwise, the application will not operate properly. Double click on the DVR\_Setup.exe to install the program.

### Execution

Just double click the shortcut of the execution file. The application first detects physical HDDs installed at your PC and search for DVR HDD among them. This process may take up to 1 minute.

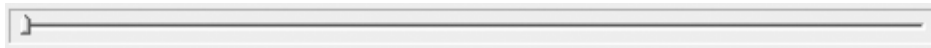
### DVR Viewer

#### User Interface



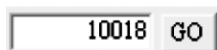
## Functions

### Valid Stream Region Indication



Once a DVR HDD is selected, the application detects valid stream region where valid video stream resides. You can drag this to access the whole streams of the DVR HDD.

### Direct Access

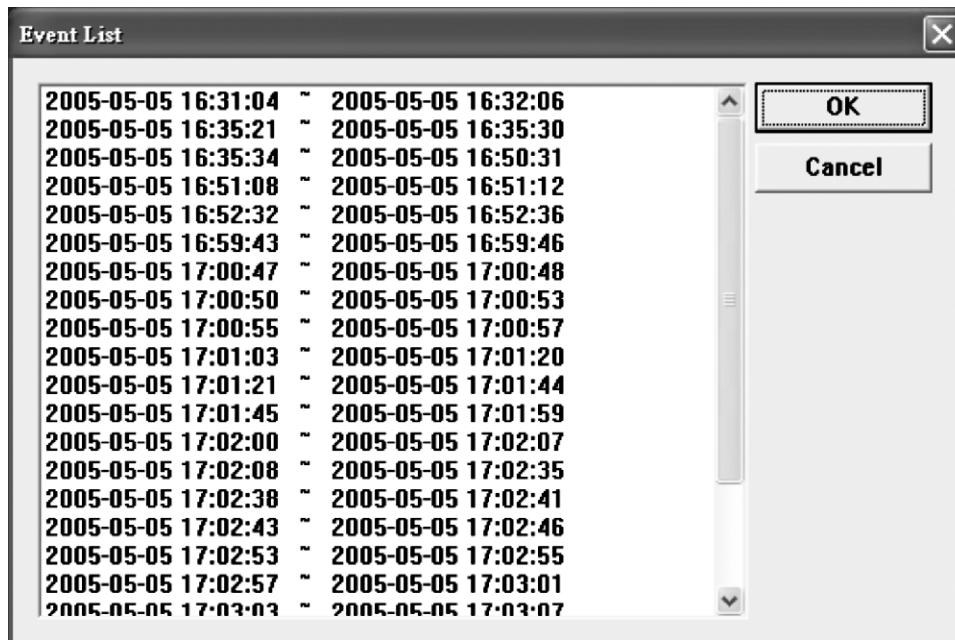


If the stream stored in a DVR HDD is quite long, you may have difficulty to find the exact scene you want to see. When you find a scene you would like to show your friend or report to police officers later, please remember the number in the Direct Access Input edit box, so that you can go there directly by entering the number in the edit box and pressing “GO” button besides it.

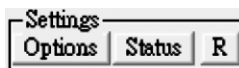
### Events List Button



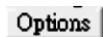
You can access the latest 64 events and go to the event directly by this button.



## Configure



### Options Button



You can change application settings such as MYS file save directory, or default video mode (NTSC/PAL). To change setting, press Options button

### Status Button



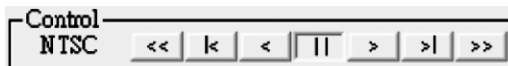
Show the status on the screen.

### Reset Button



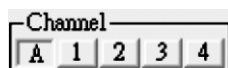
Reset the program.

## Playback



Once a DVR HDD is selected, the application automatically displays first screen recorded at the very beginning of it. Then, you can see stream at anywhere within the valid stream reason.

## Channel Selection



The default screen display channel setting is ALL CHANNEL, which shows all four channel (if the stream has 4 channel streams) at the same time. If you want to see a channel only or enlarge one channel, press any channel button you want.

### HDD Selection



Once the application detects one or more DVR HDDs, it automatically selects the first DVR HDD. You can select any DVR HDD [the DVR HDDs are marked as "VY HDD "]. However, you cannot select the normal HDD, which may be Windows-formatted one.

### Capturing Button



### Screen Capturing



If you want to capture, or backup, current screen, press Capture Current Screen button. Then it will capture the current screen and saves it as BMP file.

### Stream Capturing Button



If you want to capture, or backup, current stream, press Capture Current Stream button. Then it will record the stream you want. It will create .MYS file, whose format is Vineyard Technologies' proprietary stream file format. You can play the recorded file using MYS file player.

### Stream Capturing Button



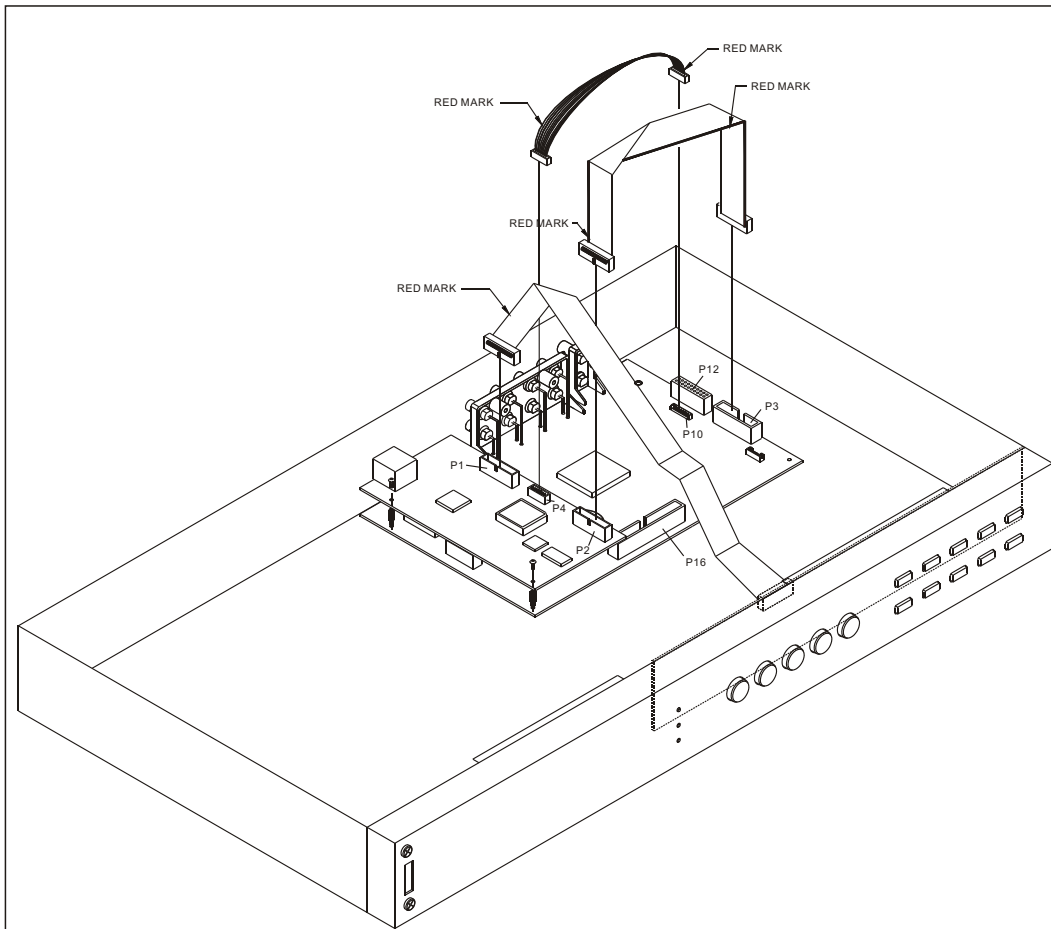
If you want to capture, or backup, current stream, press Capture Current Stream button. Then it will record the stream you want. It will create .AVI file. You can play the recorded file using any player which support AVI file.

### MYS File Player

You can play the recorded MYS file using MYS file player.

### 13.Video Server Board Installation (Option)

Illustration:

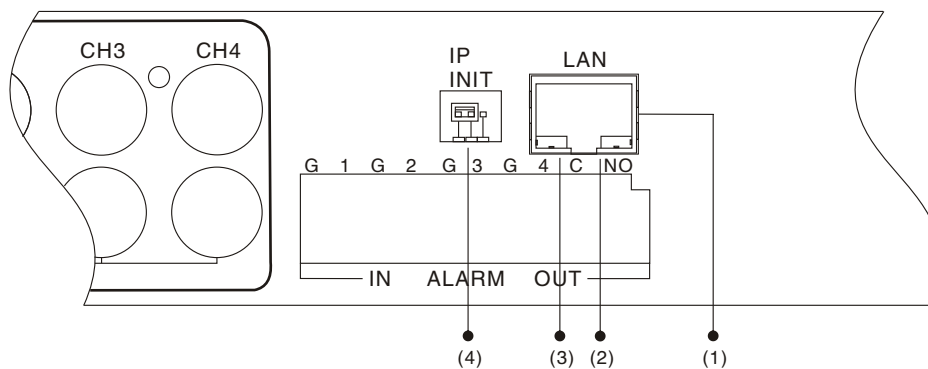


- 1.Stop the power supply.
- 2.Remove the cross piece from LAN port.
- 3.Put the video server board against the LAN port.
- 4.Fix the board with the screws.
- 5.Pull out the cable P3 from mother board and slot it in P1 on video server board.
- 6.Slot one end of IDC-20P cable in P2 on video server board , the other end in P3 on mother board.
- 7.Slot an other cable one end in P4 on video server board , the other in P10 on mother board.

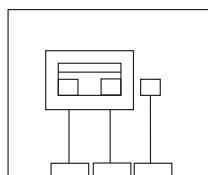
### DVR LAN Functional Specification

Network Interface	10/100 Base T, Ethernet
LAN Connector	RJ-45
Protocol	HTTP, TCP/IP, UDP, ICMP, ARP, BPDU
Link Method	ADSL, ISDN, LAN, Internet / Intranet
Remote Control	Live image, playback, set menu, record
Remote Access	Standard Browser : Microsoft IE Browser / Netscape Browser with JAVA Support.

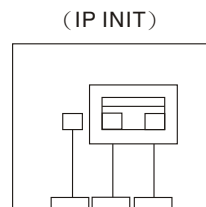
#### (1) 、TCP/IP Port as diagram below :



- 1.Ethernet RJ-45
- 2.100Mbps/link/Active indicator. (orange)
- 3.10Mbps/link/Active indicator. (green)
- 4.IP-INIT SETUP : 192.168.0.100 the default IP for initialization



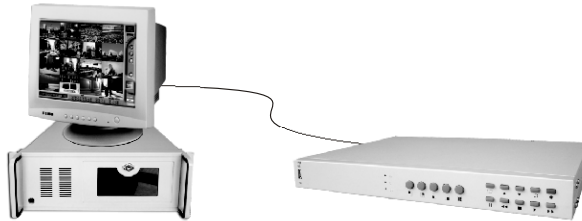
a.As shown jumper is to be on the left



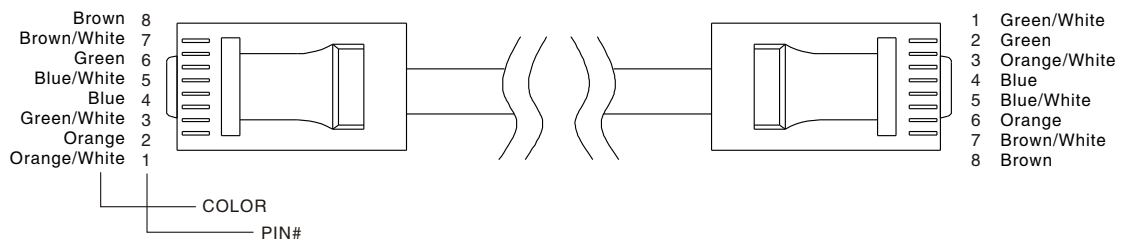
- b.How we initialize the IP?
- 1.Put the jumper to the right.
  - 2.Reboot the DVR.
  - 3.Put the jumper to the left again.

## 4CH STANDALONE DVR

### (2) 、PC to DVR Setup :



1. Use a cross-over cable to connect DVR and PC.  
Definition of cross-over cable:



2. Default IP and other parameters.

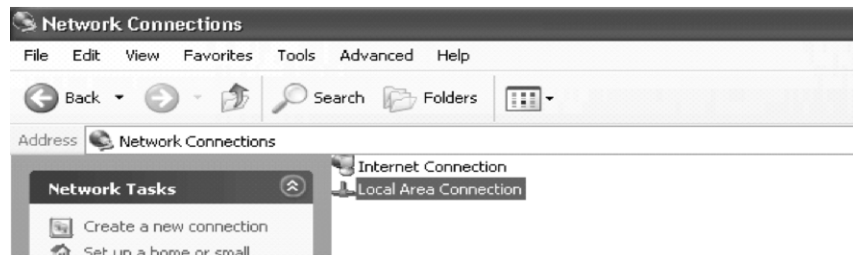
IP Address:	192 . 168 . 0 . 100
Subnet Mask:	255 . 255 . 255 . 0
Default Gateway:	192 . 168 . 0 . 1
Dns Server:	168 . 95 . 192 . 1
Video Port Number:	4321
Control Port Number:	80
Firmware Version:	Version 1.50

→ Above two items are changed IP Router or not subject to router parameters.

3. IP AMENDED ON PC SIDE.

Domain of DVR and PC must be the same. For example of windows 2000/XP:

◆ **Network Connections** → **Local Area Connection**, Click the right button to find **Properties**.

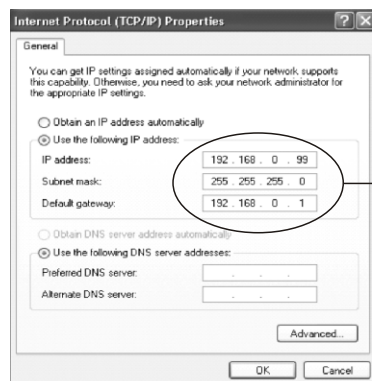


## 4CH STANDALONE DVR

◆Click **Internet Protocol (TCP/IP)** and click **Properties**.



◆Input the IP address ,subnet mask & gateway as below click **OK**.



- ◆Wait until data updated completed.
- ◆Execute IE browser.
- ◆Input the following IP address to start connection.  
**Http://192.168.0.100**

Welcome to "DVR Network" comes up hereafter.



Username : admin  
Password : 1234  
Click enter fo access remote site.



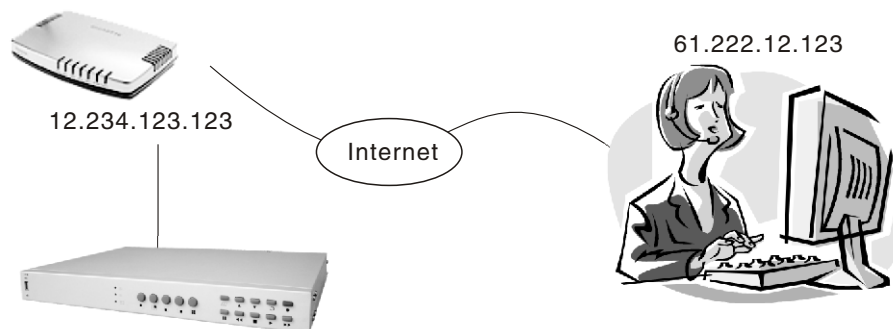
## 4CH STANDALONE DVR

Remote site picture as follows.



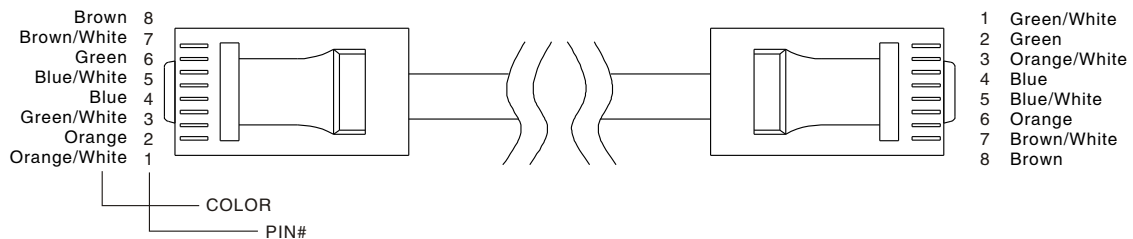
※Download JAVA software if images not found.  
Website <http://www.java.com>

### (3) Setup via ADSL Modem :



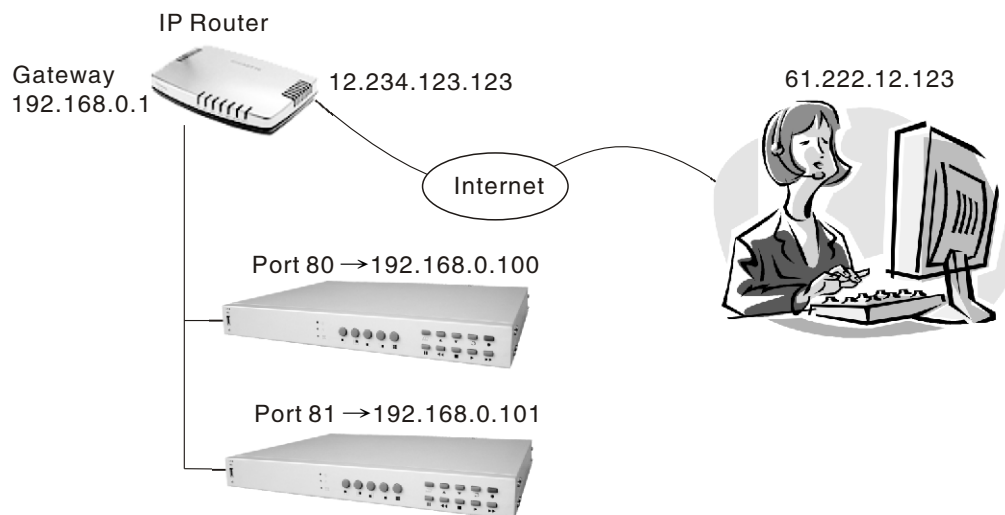
1. Cross over cable in use.
2. definition of cross-over cable :

## 4CH STANDALONE DVR

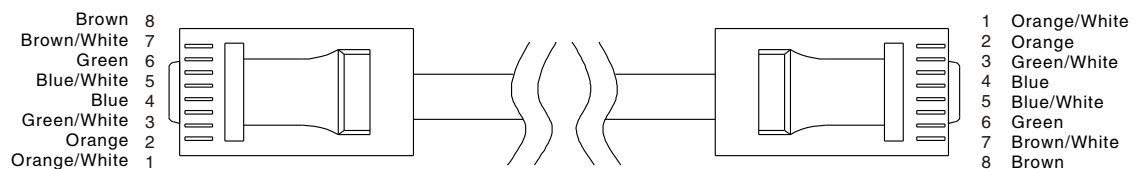


3. Prior to installation, IP address setup must be well done.

### (4) - Connection Via Router or Hub.



- ◆ Setup procedure same as previous description.
- ◆ In use of Router, distributor and Hub.
- ◆ We connect DVR & devices above with the cable as follows:



## 14. XGA CARD FOR DVR (Option)

### Installation:

Procedure :

- 1.Uncover DVR.
- 2.Remove the block behind DVR.
- 3.Insert VGA Card.
- 4.Fasten VGA connector screws.
- 5.Fasten VGA Card screws.
- 6.Connect to VGA monitor.
- 7.Test if VGA monitor works.
- 8.Put the DVR cover on the cabinet if ok.
- 9.Enter menu to get proper setup.
- 10.Done

